Figur 1

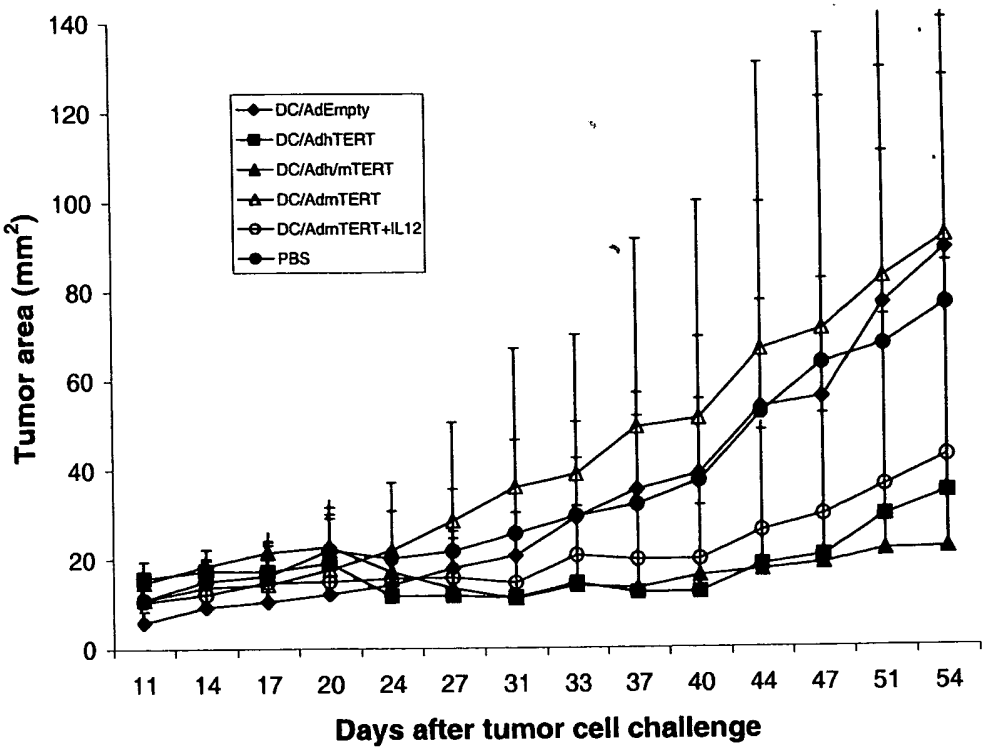
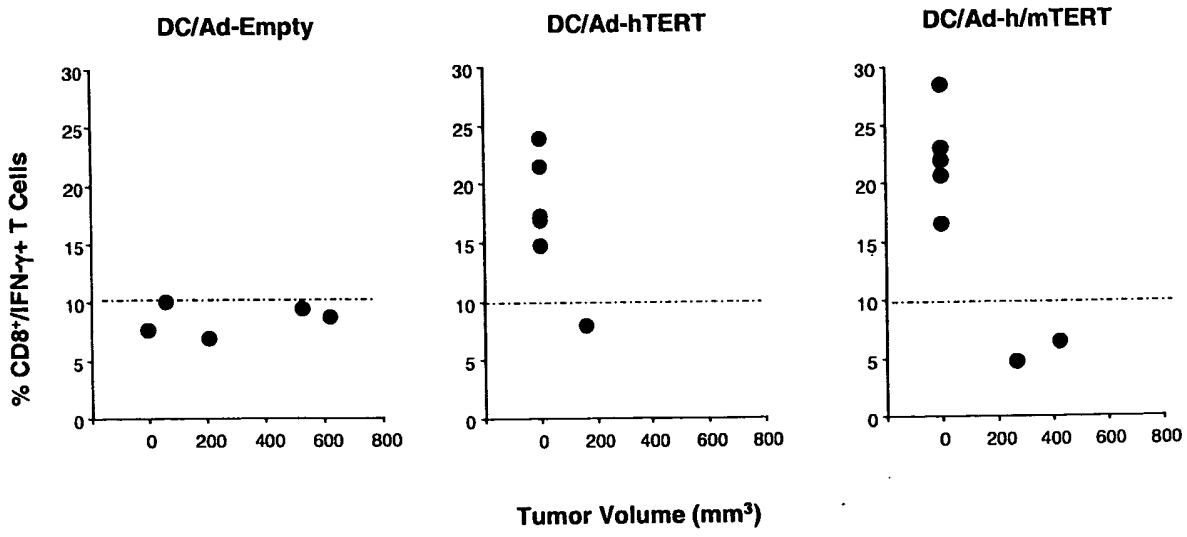
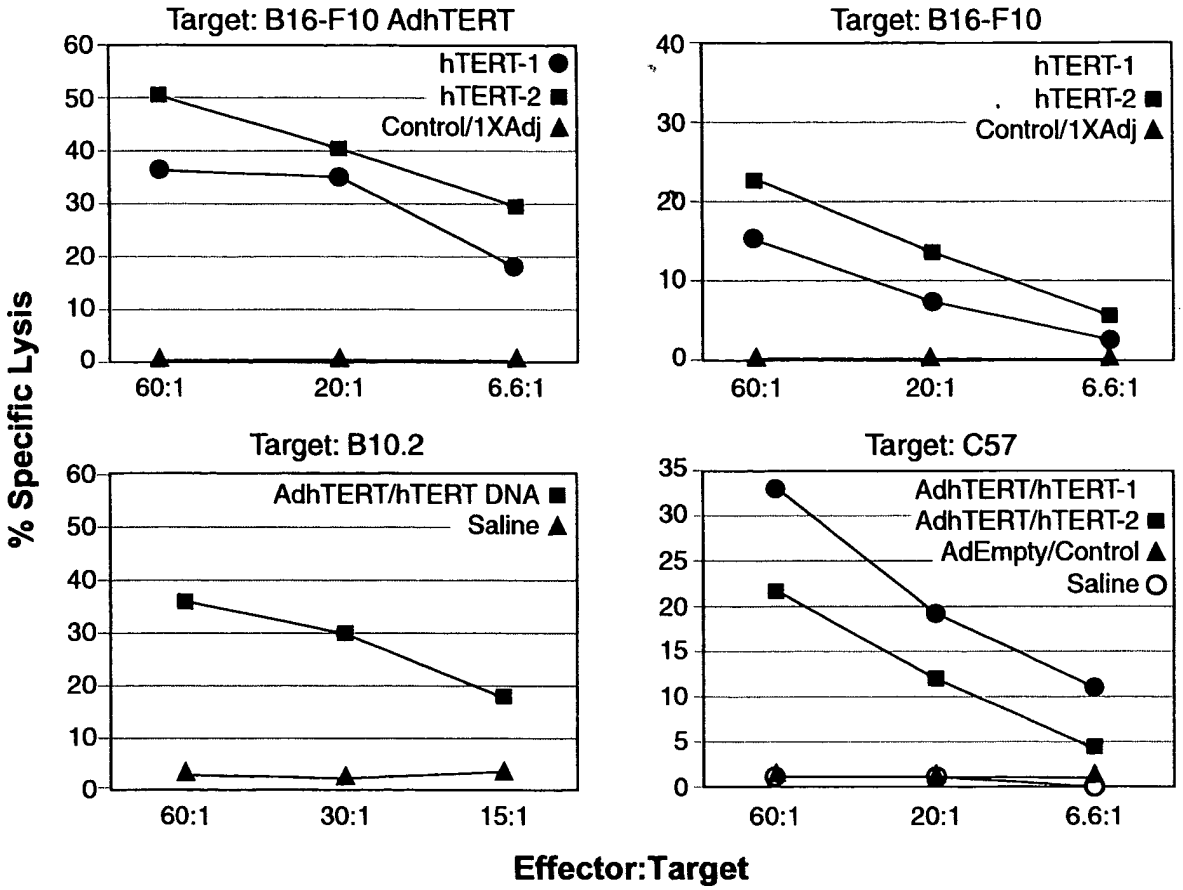


Figure 2



Figur 3


Target: B16-F10 AdhTERT
hTERT-1
hTERT-2
Control/1XAdj
60
50
40
30
20
10
0
60:1
20:1
6.6:1
Target: B16-F10
hTERT-1
hTERT-2
Control/1XAdj
40
30
20
10
0
60:1
20:1
6.6:1
Target: B10.2
AdhTERT/hTERT DNA
Saline
60
50
40
30
20
10
0
60:1
30:1
15:1
Target: C57
AdhTERT/hTERT-1
AdhTERT/hTERT-2
AdEmpty/Control
Saline
35
30
25
20
15
10
5
0
60:1
20:1
6.6:1
% Specific Lysis
Effector:Target

Figur 4(A)

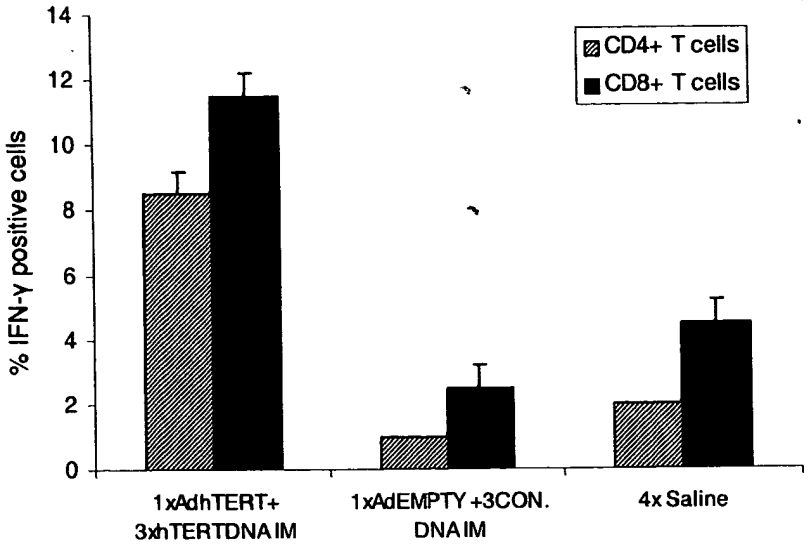


Figure 4(B)

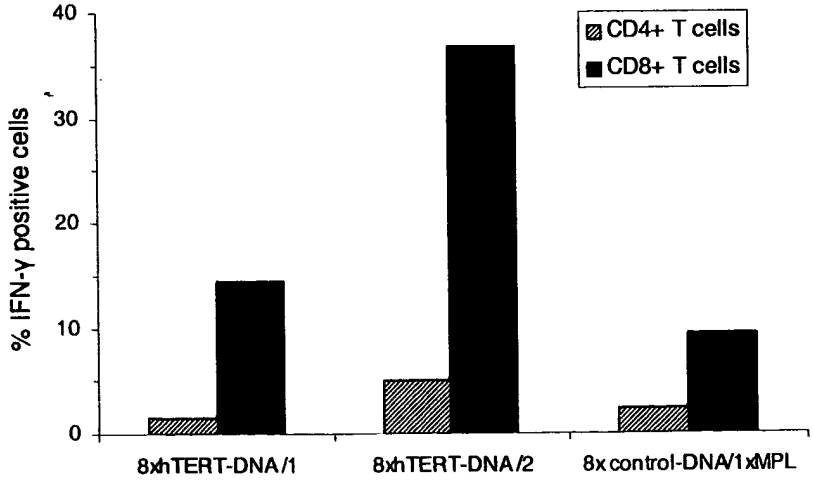


Figure 5(A)

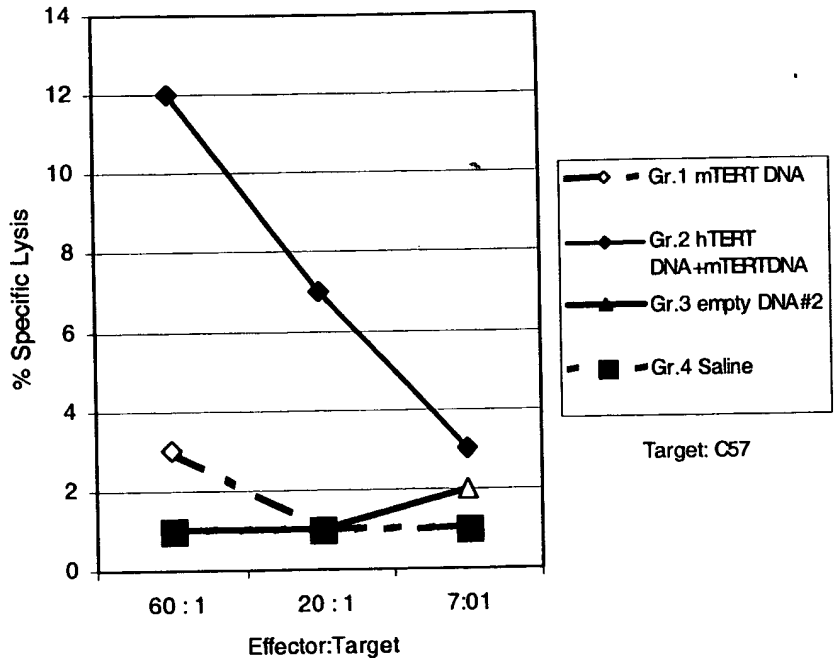


Figure 5(B)

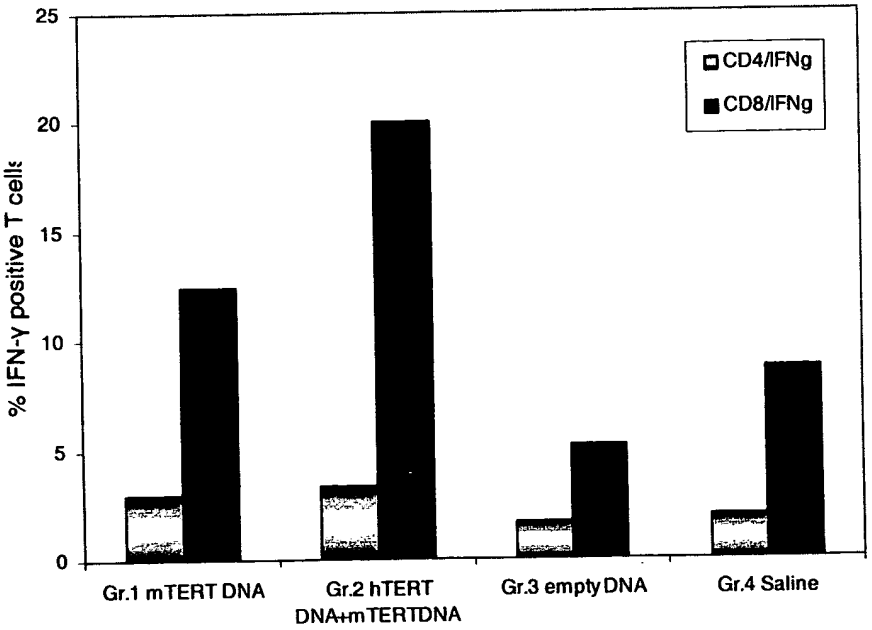


Figure 6

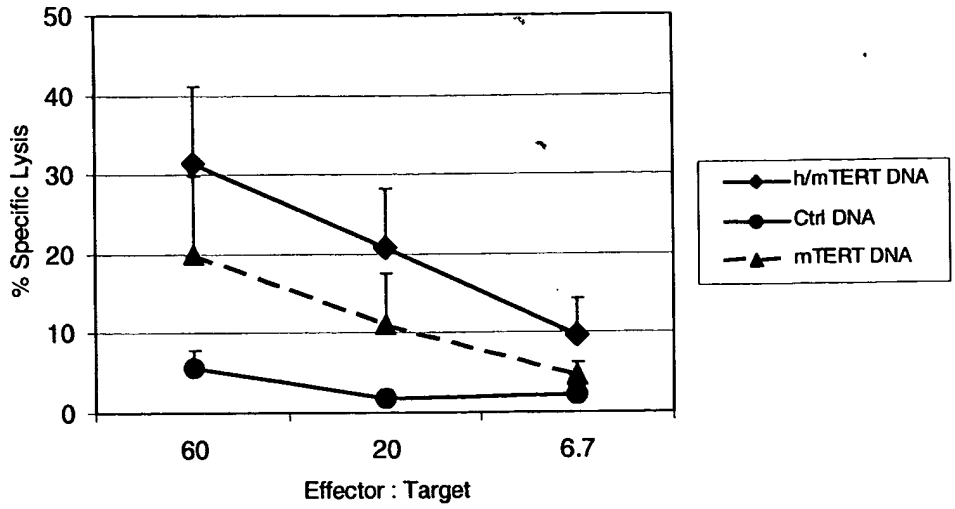


Figure 7

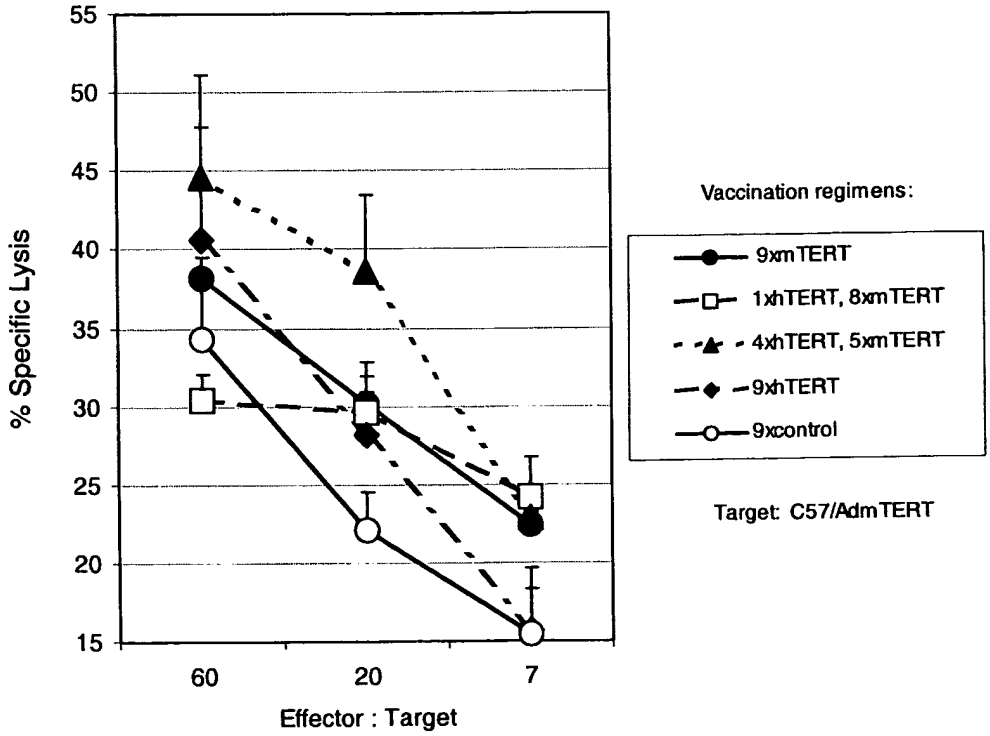


Figure 8

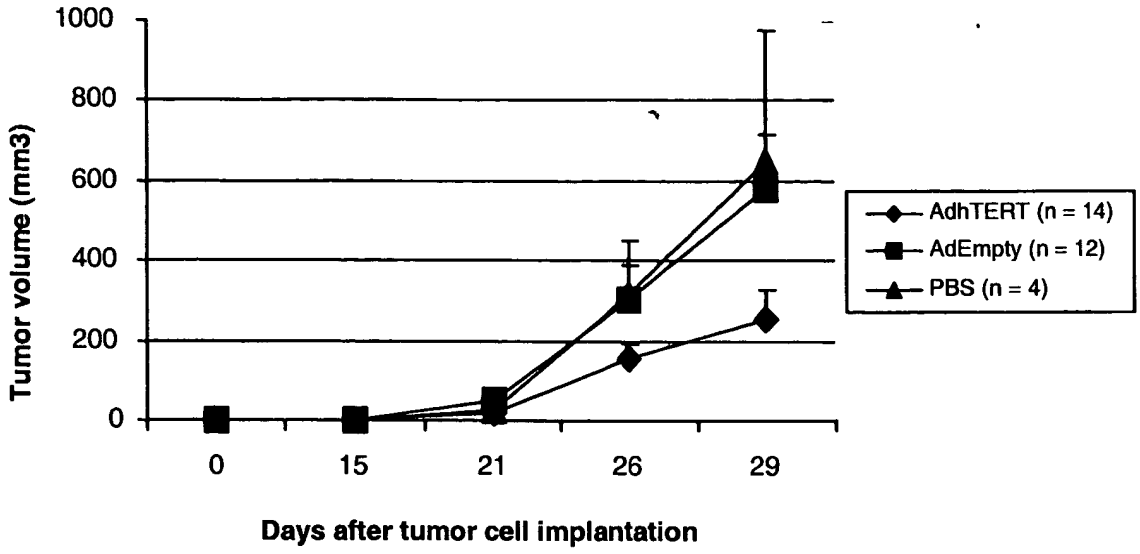

1000
800
600
400
200
0
Tumor volume (mm3)
0
15
21
26
29
Days after tumor cell implantation
AdhTERT (n = 14)
AdEmpty (n = 12)
PBS (n = 4)

Figure 9(A)

```
                          1                                                  50
Human_TERT_protein        MPRAPRCRAV RSLLRSHYRE VLPLATFVRR LGPQGWRLVQ RGDPAAFRAL
mouse_TERT_protein        MTRAPRCPAV RSLLRSRYRE VWPLATFVRR LGPEGRRLVQ PGDPKIYRTL
Hamster_TERT_protein      MPRAPRCRAV RALLRSQYRQ VWPLATFVRR LGPEGRQLVQ PGDPKVFRTL
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          MPRAPRCRAV RALLRGRYRE VLPLATFLRR LGPPGRLLVR RGDPAAFRAL
Consensus                 MPRAPRCRAV RALLRSHYRE VLPLATFVRR LGPEGRRLVQ PGDPAAFRAL

                          51                                                 100
Human_TERT_protein        VAQCLVCVPW DARPPPAAPS FRQVSCLKEL VARVLQRLCE RGAKNVLAFG
mouse_TERT_protein        VAQCLVCMHW GSQPPPADLS FHQVSSLKEL VARVVQRLCE RNERNVLAFG
Hamster_TERT_protein      VARCLVCVPW DSQPPPADLS FHQVSSLKEL VARVVQRLCE RGERNVLTFG
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          VAQCLVCVPW GARPPPAAPC FRQL------ -A-------- --------FG
Consensus                 VAQCLVCVPW GARPPPAAPS FHQVSSLKEL VARVVQRLCE RGERNVLAFG

                          101                                                150
Human_TERT_protein        FALLDGARGG PPEAFTTSVR SYLPNTVTDA LRGSGAWGLL LRRVGDDVLV
mouse_TERT_protein        FELLNEARGG PPMAFTSSVR SYLPNTVIET LRVSGAWMLL LSRVGDDLLV
Hamster_TERT_protein      FALLNGAQGG PPMTFTTSVR SYLPNSVTES LRVSGAWMLL LNRVGDDLLV
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          FALLDGARGG PPVAFTTSVR SYLPNTVTET LRGSGAWGLL LRRVGDDVLT
Consensus                 FALLDGARGG PPMAFTTSVR SYLPNTVTET LRGSGAWGLL LRRVGDDLLV

                          151                                                200
Human_TERT_protein        HLLARCALFV LVAPSCAYQV CGPPLYQLGA ATQARPPPHA SGPRRR----
mouse_TERT_protein        YLLAHCALYL LVPPSCAYQV CGSPLYQICA TTDIWPSVSA SYRPTRPVGR
Hamster_TERT_protein      YLLARCALYL LVPPSCAYQV CGSPLYQICA TAETWPSVSR IYRPTRPVGR
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          HLLARCALYL LVAPSCAYQV CGPP------ STTSAPPPLC RSRPRS----
Consensus                 HLLARCALYL LVAPSCAYQV CGPPLYQIGA TTQARPPPHA SGRPRRPVGR

                          201                                                250
Human_TERT_protein        ----LG-CER AWNHSVREAG VPLGLPAPGA RRRGGSASRS LPLPKRPRRG
mouse_TERT_protein        NFTNLRFLQQ IKSSSRQEAP KPLALPSRGT KRHLSLTSTS VPSAKKARCY
Hamster_TERT_protein      NFTHLGSTHR VRNSSHQEAW KPPPLPSREA KRSLSITNRS VPPSKKARCD
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          ---------- ---------- -PLPAPRSAG R------ARD LRPTRQARTR
Consensus                 NFTNLGFCER AWNHSVREAG VPLGLPSPGA KRRGGSASRS LPLPKKARRG

                          251                                                300
Human_TERT_protein        AAPEPERTPV GQGSWAHPGR TRGPSDRGFC VVSPARPAEE ATSLEGALSG
mouse_TERT_protein        PVPRVEEGPH RQVLPTPSGK SWVPSPARSP EVPT---AEK DLSSKGKVSD
Hamster_TERT_protein      LAPRLEKGPY RQAVPTPSDK TWVPNPAKSH AVPISRTTKE DLSSGVKAPG
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          PARGSPERSS GSASQWRSRR RHRPSQATAP VASR------ -VYTCRALPQ
Consensus                 AAPEPERTPV GQGSWTPSGR TRVPSDAGSP VVSPARPAEE DLSSKGKVSD

                          301                                                350
Human_TERT_protein        TRHSHPSVGR QHHAGPPSTS RPPRPWDTPC PPVYAETKHF LYSSGDKEQL
mouse_TERT_protein        LSLSGSVCCK HKPSS-TSLL SPPRQNAFQL RPFIETRHFL YSRGDGQERL
Hamster_TERT_protein      LSRSGSVCYK HKPSS-TSLQ SPLCQNAFQL RPYTETKRFL YSREGGRERL
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          LAWEG---GP PDSSNHPSLD TSPGPQGVPH DPAHPETKRF LYCSGGRERL
Consensus                 LSLSGSVCCK HKPSSPPSLS SPPRPNAFQL RPVYAETKHF LYSSGGRERL
```

Figure 9(B)

```
                          351                                                 400
Human_TERT_protein        RPSFLLSSLR PSLTGARRLV ETIFLGSRPW MPGTPRRLPR LPQRYWQMRP
mouse_TERT_protein        NPSFLLSNLQ PNLTGARRLV EIIFLGSRPR TSGPLCRTHR LSRRYWQMRP
Hamster_TERT_protein      NPSFLLNNLQ PSLTGARRLV EILFLGMRPR TSGPLCGRRR LSKRYWQMRP
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          RPSFLLSALP PTLG-ARKLV ETIFLGSAPQ KPGAARRMRR LPARYWRMRP
Consensus                 RPSFLLSNLQ PSLTGARRLV ETIFLGSRPW TSGPLCRTHR LSRRYWQMRP

                          401                                                 450
Human_TERT_protein        LFLELLGNHA QCPYGVLLKT HCPLRAAVTP AAGVCAREKP QGSVAAPEE-
mouse_TERT_protein        LFQQLLVNHA ECQYVRLLRS HCRFRTANQQ VTDALNTSPP ----------
Hamster_TERT_protein      LFQQLLVNHA RCPYVRLLRS HCRFRTAAHQ VAGALNTTSP Q---------
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          LFQELLGNHA RCPYRALLRT HCPLRAMAAK EGSGNQAHRG VGICPLERPV
Consensus                 LFQELLGNHA RCPYVRLLRS HCPLRAAATP VAGALNTSPP QGSVAAPEEV

                          451                                                 500
Human_TERT_protein        ----EDTDPR RLVQLLRQHS SPWQVYGFVR ACLRRLVPPG LWGSRHNERR
mouse_TERT_protein        ---------- HLMDLLRLHS SPWQVYGFLR ACLCKVVSAS LWGTRHNERR
Hamster_TERT_protein      ---------- RLMNLLRLHS SPWQVYGFLQ ACVGKLVPPG LWGSRHNQRR
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          AAPQEQTDST RLVQLLRQHS SPWQVYAFLR ACLCWLVPTG LWGSRHNQRR
Consensus                 AAPQEQTDST RLMQLLRQHS SPWQVYGFLR ACLCKLVPPG LWGSRHNERR

                          501                                                 550
Human_TERT_protein        FLRNTKKFIS LGKHAKLSLQ ELTWKMSVRD CAWLRRSPGV G---------
mouse_TERT_protein        FFKNLKKFIS LGKYGKLSLQ ELMWKMKVED CHWLRSSPGK D---------
Hamster_TERT_protein      FFKNVKRFIS LGKYDKLSLQ ELTWKMKVQD CRWLRSSPGN N---------
Rat_TERT_protein          ---------- ---------- ---------- ---------- ----------
Dog_TERT_protein          FLRNVKKFIS LGKHAKLSLQ ELTWKMKVRD CTWLHGNPGE ECRVSRCLVG
Consensus                 FLKNVKKFIS LGKHAKLSLQ ELTWKMKVRD CAWLRSSPGY E---------

                          551                                                 600
Human_TERT_protein        ------CVPA AEHRLREEIL AK---FLHWL MSVYVVELLR SFFYVTETTF
mouse_TERT_protein        ------RVPA AEHRLRERIL AT---FLFWL MDTYVVQLLR SFFYITESTF
Hamster_TERT_protein      ------CVPA AEHRTRERIL AV---FLFWL MDAYVVELLR SFFYVTETTF
Rat_TERT_protein          ---------- ---------- ---------- ---------R SFFYITESTF
Dog_TERT_protein          LQEGPGSQPE CGRPLPPNHP S-EHPFLCWA GSDCPACLSA PRLPSQTSPH
Consensus                 ------SVPA AEHRLRERIL AKEHPFLFWL MSVYVVELLR SFFYITESTF

                          601                                                 650
Human_TERT_protein        QKNR------ ----LFFYRK SVWSKLQS-- --------IG IRQHLKRVQL
mouse_TERT_protein        QKNR------ ----LFFYRK SVWSKLQS-- --------IG VRQHLERVRL
Hamster_TERT_protein      QKNR------ ----LFFYRK SMWRRLQS-- --------IG VRHHLERVRL
Rat_TERT_protein          QKNR------ ----LFFYRK SVWSKLQS-- --------IG VRQHLERVRL
Dog_TERT_protein          PQRLPGCPHL LPGVMRHHEM SSWWRPSSPY PGHTWLLIGC APQLFNSVHL
Consensus                 QKNR------ ----LFFYRK SVWSKLQS-- --------IG VRQHLERVRL

                          651                                                 700
Human_TERT_protein        RELSEAEVRQ HREARPALLT SRLRFIPKPD GLRPIVNMDY VVGARTFRRE
mouse_TERT_protein        RELSQEEVRH HQDTWLAMPI CRLRFIPKPN GLRPIVNMSY SMGTRALGRR
Hamster_TERT_protein      QELSQEEVRQ RQEAWPAMPI CRLRFIPKPS GLRPIVNMSY -MGTRAFDKG
Rat_TERT_protein          RELSQEEVRH HQDTWLAMPI CRLRFIPKPN GLRPIVNMSY SMGTRALGRR
Dog_TERT_protein          RELSEAEVRR HREARPALLT SRLRFLPKPS GLRPIVNMDY IMGARTFHRD
Consensus                 RELSQEEVRQ HQEAWPAMPI CRLRFIPKPN GLRPIVNMSY SMGTRAFGRR
```

Figure 9(C)

```
                        701                                                 750
Human_TERT_protein      KRAERLTSRV KALFSVLNYE RARRPGLLGA SVLGLDDIHR AWRTFVLRVR
mouse_TERT_protein      KQAQHFTQRL KTLFSMLNYE RTKHPHLMGS SVLGMNDIYR TWRAFVLRVR
Hamster_TERT_protein    KQAQHFTQCL KTLFSVLNYE LTKHTNLLGA SVLGLNDIYR TWRTFVLRVR
Rat_TERT_protein        KQAQHFTQRL KTLFSMLNYE RTKHPHLMGS SVLGMNDIYR TWRAFVLRVR
Dog_TERT_protein        KKVQHLTSQL KTLFSVLNYE RARRPSLLGA SMLGMDDIHR AWRTFVLRIR
Consensus               KQAQHFTQRL KTLFSVLNYE RTKHPHLLGA SVLGMNDIYR TWRTFVLRVR

                        751                                                 800
Human_TERT_protein      AQDPPPELYF VKVDVTGAYD TIPQDRLTEV IASIIKP-QN TYCVRRYAVV
mouse_TERT_protein      ALDQTPRMYF VKADVTGAYD AIPQGKLVEV VANMIRHSES TYCIRQYAVV
Hamster_TERT_protein    TLDPAPRMYF VKADVTGAYD AIPQDKLVEV IANMIRHPDN SYCIHQYAVV
Rat_TERT_protein        ALDQTPRMYF VKADVTGAYD AIPQGKLVEV VANMIRHSES TYCIRQYAVV
Dog_TERT_protein        AQNPAPQLYF VKVDVTGAYD ALPQDRLVEV IANVIRPQES TYCVRHYAVV
Consensus               ALDPTPRMYF VKADVTGAYD AIPQDKLVEV IANMIRHSES TYCIRQYAVV

                        801                                                 850
Human_TERT_protein      QKAAHGHVRK AFKSHVSTLT DLQPYMRQFV AHLQETSP-- LRDAVVIEQS
mouse_TERT_protein      RRDSQGQVHK SFRRQVTTLS DLQPYMGQFL KHLQDSDASA LRNSVVIEQS
Hamster_TERT_protein    QRDRQGQIHK SFRRQVSTLS DLQPHMGQFL KHLQDSDTSA LRNSVVIEQS
Rat_TERT_protein        RRDSQGQVHK SFRRQVTTLS DLQPYMGQFL KHLQDSDASA LRNSVVIEQS
Dog_TERT_protein        QRTARGHVRK AFKRH----- ---------- ---------- ----------
Consensus               QRDAQGQVHK SFRRQVSTLS DLQPYMGQFL KHLQDSDASA LRNSVVIEQS

                        851                                                 900
Human_TERT_protein      SSLNEASSGL FDVFLRFMCH HAVRIRGKSY VQCQGIPQGS ILSTLLCSLC
mouse_TERT_protein      ISMNESSSSL FDFFLHFLRH SVVKIGDRCY TQCQGIPQGS SLSTLLCSLC
Hamster_TERT_protein    LSLNEASSSL FDFFLRFVRN SVVKIGGRCY VQCQGIPQGS SLSTLLCSLC
Rat_TERT_protein        ISMNESSSSL FDFFLHFLRH SVVKIGDRCY TQCQGIPQGS SLSTLLCSLC
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               ISLNEASSSL FDFFLRFLRH SVVKIGGRCY VQCQGIPQGS SLSTLLCSLC

                        901                                                 950
Human_TERT_protein      YGDMENKLFA GIRRDGLLLR LVDDFLLVTP HLTHAKTFLR TLVRGVPEYG
mouse_TERT_protein      FGDMENKLFA EVQRDGLLLR FVDDFLLVTP HLDQAKTFLS TLVHGVPEYG
Hamster_TERT_protein    FGDMENKLFA EVQQDGLLLR FVDDFLLVTP HLVQAEAFLR ALVRGIPEYG
Rat_TERT_protein        FGDMENKLFA EVQRDGLLLR FVDDFLLVTP HLDQAKTFLS TLVHGVPEYG
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               FGDMENKLFA EVQRDGLLLR FVDDFLLVTP HLDQAKTFLS TLVRGVPEYG

                        951                                                1000
Human_TERT_protein      CVVNLRKTVV NFPVEDEALG GTAFVQMPAH GLFPWCGLLL DTRTLEVQSD
mouse_TERT_protein      CMINLQKTVV NFPVEPGTLG GAAPYQLPAH CLFPWCGLLL DTQTLEVFCD
Hamster_TERT_protein    CMINLQKTVV NFPVDAGTLD GTAPHQLPAH CLFPWCGLLL DTQTLEVLCD
Rat_TERT_protein        CMINLQKTVV NFPVEPGTLG GAAPYQLPAH CLFPWCGLLL DTQTLEVFCD
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               CMINLQKTVV NFPVEPGTLG GTAPYQLPAH CLFPWCGLLL DTQTLEVFCD

                        1001                                               1050
Human_TERT_protein      YSSYARTSIR ASLTFNRGFK AGRNMRRKLF GVLRLKCHSL FLDLQVNSLQ
mouse_TERT_protein      YSGYAQTSIK TSLTFQSVFK AGKTMRNKLL SVLRLKCHGL FLDLQVNSLQ
Hamster_TERT_protein    YTGYARTSIK ASLTFQRTFK AGRNMRQKLL AVLRLKCHSL FLDLQMNSLQ
Rat_TERT_protein        YSGYAQTSIK TSLTFQSVFK AGKTMRNKLL SVLRLKCHGL FLDLQVNSLQ
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               YSGYARTSIK ASLTFQRVFK AGKNMRNKLL SVLRLKCHSL FLDLQVNSLQ
```

Figure 9(D)

```
                        1051                                                1100
Human_TERT_protein      TVCTNIYKIL LLQAYRFHAC VLQLPFHQQV WKNPTFFLRV ISDTASLCYS
mouse_TERT_protein      TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNLTFFLGI ISSQASCCYA
Hamster_TERT_protein    TVCINVYKIF LLQAYRFHAC ALQLPFDQHV RKNPAFFLSI ISNIASCCYS
Rat_TERT_protein        TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNLTFFLGI ISSQASCCYA
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNPTFFLGI ISSQASCCYA

                        1101                                                1150
Human_TERT_protein      ILKAKNAGMS LGAKGAAGPL PSEAVQWLCH QAFLLKLTRH RVTYVPLLGS
mouse_TERT_protein      ILKVKNPGMT LKAS---GSF PPEAAHWLCY QAFLLKLAAH SVIYKCLLGP
Hamster_TERT_protein    ILKVKNAGMT LKAKGASGSF PPEAARWLCY QAFLLKLAGH SVTYKCLLGP
Rat_TERT_protein        ILKVKNPGMT LKAS---GSF PPEAAHWLCY QAFLLKLAAH SVIYKCLLGP
Dog_TERT_protein        ---------- ---------- ---------- ---------- ----------
Consensus               ILKVKNAGMT LKAKGAAGSF PPEAAHWLCY QAFLLKLAAH SVTYKCLLGP

                        1151                                    1188
Human_TERT_protein      LRTAQTQLSR KLPGTTLTAL EAAANPALPS DFKTILD-
mouse_TERT_protein      LRTAQKLLCR KLPEATMTIL KAAADPALST DFQTILD-
Hamster_TERT_protein    LRTAQKQLCR KLPRATMAIL ETAADPALST DFQTILD-
Rat_TERT_protein        LRTAQKLLCR KLPEATMTIL KAAADPALST DFQTILD-
Dog_TERT_protein        ---------- ---------- ---------- --------
Consensus               LRTAQKQLCR KLPEATMTIL EAAADPALST DFQTILD-
```

Figure 10(A)

```
                          1                                                  50
        Human_TERT_cds    ATGCCGCGCG CTCCCCGCTG CCGAGCCGTG CGCTCCCTGC TGCGCAGCCA
        Mouse_TERT_cds    ATGACCCGCG CTCCTCGTTG CCCCGCGGTG CGCTCTCTGC TGCGCAGCCG
      Hamster_TERT_cds    ATGCCCCGCG CGCCCCGTTG CCGGGCCGTG CGCGCTCTGC TGCGCAGTCA
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    ATGCCGCGAG CGCCCCGGTG CCGCGCCGTG CGCGCCCTGC TGCGGGGCCG
              Consensus   ATGCC-CGCG C-CCCCG-TG CCG-GCCGTG CGC-C-CTGC TGCGCAGCC-

                          51                                                 100
        Human_TERT_cds    CTACCGCGAG GTGCTGCCGC TGGCCACGTT CGTGCGGCGC CTGGGGCCCC
        Mouse_TERT_cds    ATACCGGGAG GTGTGGCCGC TGGCAACCTT TGTGCGGCGC CTGGGGCCCG
      Hamster_TERT_cds    ATACCGTCAG GTGTGGCCGC TGGCAACCTT CGTGCGGCGC CTGGGACCTG
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CTACCGGGAG GTGCTGCCCC TGGCCACCTT CCTGCGGCGC CTGGGGCCCC
              Consensus   -TACCG-GAG GTG--GCCGC TGGC-ACCTT CGTGCGGCGC CTGGGGCCC-

                          101                                                150
        Human_TERT_cds    AGGGCTGGCG GCTGGTGCAG CGCGGGGACC CGGCGGCTTT CCGCGCGCTG
        Mouse_TERT_cds    AGGGCAGGCG GCTTGTGCAA CCCGGGGACC CGAAGATCTA CCGCACTTTG
      Hamster_TERT_cds    AGGGCAGGCA GCTTGTACAA CCCGGGGACC CAAAGGTCTT CCGCACGTTG
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CGGGCCGGCT GCTCGTGCGG CGCGGGGACC CGGCGGCCTT CCGCGCGCTG
              Consensus   AGGGC-GGC- GCT-GTGCA- C-CGGGGACC CG--GG-CTT CCGC-CG-TG

                          151                                                200
        Human_TERT_cds    GTGGCCCAGT GCCTGGTGTG CGTGCCCTGG GACGCACGGC CGCCCCCCGC
        Mouse_TERT_cds    GTTGCCCAAT GCCTAGTGTG CATGCACTGG GGCTCACAGC CTCCACCTGC
      Hamster_TERT_cds    GTGGCCCGGT GCCTAGTGTG TGTGCCCTGG GACTCACAAC CTCCACCTGC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    GTGGCGCAGT GCCTGGTGTG CGTGCCCTGG GGCGCGCGGC CGCCCCCCGC
              Consensus   GTGGCCCAGT GCCT-GTGTG CGTGCCCTGG G-C-CAC-GC C-CC-CC-GC

                          201                                                250
        Human_TERT_cds    CGCCCCCTCC TTCCGCCAGG TGTCCTGCCT GAAGGAGCTG GTGGCCCGAG
        Mouse_TERT_cds    CGACCTTTCC TTCCACCAGG TGTCATCCCT GAAAGAGCTG GTGGCCAGGG
      Hamster_TERT_cds    TGACCTTTCC TTCCACCAGG TGTCATCACT GAAGGAGCTG GTGGCCAGGG
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CGCCCCGTGC TTCCGCCAG- ---C------ ---------- ----------
              Consensus   CG-CC--TCC TTCC-CCAGG TGTC-T--CT GAA-GAGCTG GTGGCC-G-G

                          251                                                300
        Human_TERT_cds    TGCTGCAGAG GCTGTGCGAG CGCGGCGCGA AGAACGTGCT GGCCTTCGGC
        Mouse_TERT_cds    TTGTGCAGAG ACTCTGCGAG CGCAACGAGA GAAACGTGCT GGCTTTTGGC
      Hamster_TERT_cds    TCGTGCAGAG ACTCTGCGAG CGCGGCGAGA GGAACGTGCT GACTTTTGGC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------T GGCTTTCGGC
              Consensus   T--TGCAGAG -CTCTGCGAG CGC--CG-GA --AACGTGCT GGCTTT-GGC

                          301                                                350
        Human_TERT_cds    TTCGCGCTGC TGGACGGGGC CCGCGGGGGC CCCCCCGAGG CCTTCACCAC
        Mouse_TERT_cds    TTTGAGCTGC TTAACGAGGC CAGAGGCGGG CCTCCCATGG CCTTCACTAG
      Hamster_TERT_cds    TTCGCGCTGC TTAACGGAGC CCAAGGCGGT CCTCCCATGA CATTCACAAC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    TTCGCCCTGC TGGACGGAGC GCGCGGCGGG CCCCCCGTGG CCTTCACGAC
              Consensus   TTCGCGCTGC T--ACGG-GC CCG-GGCGG- CC-CCC-TGG CCTTCAC-AC
```

Figure 10(B)

```
                        351                                                 400
          Human_TERT_cds CAGCGTGCGC AGCTACCTGC CCAACACGGT GACCGACGCA CTGCGGGGGA
          Mouse_TERT_cds TAGCGTGCGT AGCTACTTGC CCAACACTGT TATTGAGACC CTGCGTGTCA
        Hamster_TERT_cds CAGCGTGCGC AGCTACCTGC CCAACTCGGT GACTGAGTCT CTGCGCGTCA
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) CAGCGTGCGC AGCTACCTGC CCAACACGGT AACCGAGACC CTGCGCGGCA
                Consensus CAGCGTGCGC AGCTACCTGC CCAACACGGT -AC-GAG-C- CTGCG-G-CA

                        401                                                 450
          Human_TERT_cds GCGGGGCGTG GGGGCTGCTG CTGCGCCGCG TGGGCGACGA CGTGCTGGTT
          Mouse_TERT_cds GTGGTGCATG GATGCTACTG TTGAGCCGAG TGGGCGACGA CCTGCTGGTC
        Hamster_TERT_cds GTGGTGCTTG GATGCTTCTG CTGAACCGAG TGGGCGACGA CTTGCTGGTC
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) GCGGCGCCTG GGGGCTGCTG CTGCGCCGCG TGGGCGACGA TGTGCTCACC
                Consensus G-GG-GC-TG G--GCT-CTG CTG-GCCG-G TGGGCGACGA C-TGCTGGTC

                        451                                                 500
          Human_TERT_cds CACCTGCTGG CACGCTGCGC GCTCTTTGTG CTGGTGGCTC CCAGCTGCGC
          Mouse_TERT_cds TACCTGCTGG CACACTGTGC TCTTTATCTT CTGGTGCCCC CCAGCTGTGC
        Hamster_TERT_cds TACCTGCTGG CCCGCTGTGC GCTTTACCTG CTGGTGCCCC CGAGCTGTGC
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) CACCTGCTGG CGCGCTGCGC GCTCTACCTG CTGGTGGCTC CGAGCTGCGC
                Consensus -ACCTGCTGG C-CGCTG-GC GCT-TA-CTG CTGGTG-C-C C-AGCTG-GC

                        501                                                 550
          Human_TERT_cds CTACCAGGTG TGCGGGCCGC CGCTGTACCA GCTCGGCGCT GCCAC-----
          Mouse_TERT_cds CTACCAGGTG TGTGGGTCTC CCCTGTACCA AATTTGTGCC ACCACGGATA
        Hamster_TERT_cds CTACCAGGTG TGCGGCTCAC CCCTGTACCA AATCTGTGCC ACCGCAGAAA
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) CTACCAGGTG TGCGGGCCGC CG-TCTACGA CCTCTGCGCC CCCGC--CTC
                Consensus CTACCAGGTG TGCGGG-C-C C-CTGTACCA --TCTG-GCC -CC-C--A--

                        551                                                 600
          Human_TERT_cds TCAGGCC--- --------C- -------GGC CCCCGCCACA CGCTAGTGGA
          Mouse_TERT_cds TCTGGCCCTC TGTGTCCGCT AGTTACAGGC CCACCCGACC CGTGGGCAGG
        Hamster_TERT_cds CCTGGCCTTC TGTGTCCCGC ATCTACAGGC CCACACGACC CGTGGGCAGA
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) TCTGCCGCTC ---------- -----CCGGC CC-CGCTCCC CGCTCCCCG-
                Consensus -CTGGCCCTC ---G-CC--- A------G-C CC-C-CG-C- C-TGGG----

                        601                                                 650
          Human_TERT_cds CCCCGAAGGC GTCTGGGATG CGAAC---GG GCCTGGAACC ATAGCGTCAG
          Mouse_TERT_cds AATTTCACTA ACCTTAGGTT CTTACAACAG ATCAAGAGCA GTAGTCGCCA
        Hamster_TERT_cds AATTTTACTC ATCTTGGATC CACACACCGG GTCAGGAACA GCAGTCACCA
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) -------CTC CCCGCTCGGC CGGCC---GG GCTCGGGACC TCAGACCC--
                Consensus -AT---A--- ---------- ---AC----G --C--GA-C- G-AGTC-C-A

                        651                                                 700
          Human_TERT_cds GGAGGCCGGG GTCCCCCTGG GCCTGCCAGC CCCGGGTGCG AGGAGGCGCG
          Mouse_TERT_cds GGAAGCACCG AAACCCCTGG CCTTGCCATC TCGAGGTACA AAGAGGCATC
        Hamster_TERT_cds GGAAGCATGG AAACCCCCGC CCTTGCCATC TCGAGAGGCG AAGCGGAGTC
Rat_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial) ---------- ACACGCCAGG CCAG---AAC TCGGCCAGCG CGGGGCAGCC
                Consensus GGA-GCA--G A-ACCCC-GG CC-TGCCA-C TCG-G--GCG A-G-GG-G-C
```

Figure 10(C)

```
                          701                                                 750
       Human_TERT_cds     GGGGCAGTGC CAGCCGAAGT CTGCCGTTGC CCAAGAGGCC CAGGCGTGGC
       Mouse_TERT_cds     TGAGTCTCAC CAGTACAAGT GTGCCTTCAG CTAAGAAGGC CAGATGCTAT
     Hamster_TERT_cds     TAAGCATCAC CAATAGAAGT GTGCCTCCAT CTAAGAAGGC CAGGTGCGAT
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CGGAGCGGTC CTCTGGAAG- -CGCC----- -----A--GC CAGTGGCGGA
             Consensus    -G-G-----C CA-T-GAAGT GTGCC----- C-AAGA-G-C CAG--G----

                          751                                                 800
       Human_TERT_cds     GCTGCCCCTG AGCCGGAGCG GACGCCCGTT GGGCAGGGGT CCTGGGCCCA
       Mouse_TERT_cds     CCTGTCCCGA GAGTGGAGGA GGGACCCCAC AGGCAGGTGC TACCAACCCC
     Hamster_TERT_cds     CTGGCCCCGA GACTGGAGAA GGGACCCTAC AGGCAGGCAG TTCCAACCCC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    G----C---A GAC------- --GGCGCCAC AGGC------ ---CTTCCCA
             Consensus    -C-G-CCCG- G-C-GGAG-- G-G-CCC-AC AGGCAGG--- ------CCCC

                          801                                                 850
       Human_TERT_cds     CCCGGGCAGG ACGCGTGGAC CGAGTGACCG TGGTTTCTGT GTGGTGTCAC
       Mouse_TERT_cds     ATCAGGCAAA TCATGGGTGC CAAGTCCTGC TCGGTCCCCC GAGGTGCCTA
     Hamster_TERT_cds     ATCAGACAAA ACATGGGTGC CAAATCCTGC CAAGTCCCAT GCAGTGCCTA
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    GGC---CACA GCTCCTGTAG CAAGCCGGGT GTACACCTGC CGGGCGCTTC
             Consensus    --C-G-CA-A -C--G-GT-C CAAGTC--G- ----TCC--- G-GGTGCCT-

                          851                                                 900
       Human_TERT_cds     CTGCCAGACC CGCCGAAGAA GCCACCTCTT TGGAGGGTGC GCTCTCTGGC
       Mouse_TERT_cds     ---------C TGCAGAGAAA GATTTGTCTT CTAAAGGAAA GGTGTCTGAC
     Hamster_TERT_cds     TTAGTAGAAC TACCAAGGAA GATTTGTCTT CCGGGGTGAA GGCACCTGGC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    ---------- --CCCAG--- -CT-GGCCT- -----GGGAG GGAGGCCCCC
             Consensus    ---------C --C-GA--AA G-----TCTT -----GG-A- GG---CTG-C

                          901                                                 950
       Human_TERT_cds     ACGCGCCACT CCCACCCATC CGTGGGCCGC CAGCACCACG CGGGCCCCCC
       Mouse_TERT_cds     CTGAGTCTCT CTGGGT---C GGTGTGCTGT AAACACAAGC CCAGCTCCAC
     Hamster_TERT_cds     CTGAGTCGCT CTGGGT---C AGTGTGCTAT AAACACAAGC CCAGTTCCAC
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CGGACTCGT- ---------C C-------AA CCACCCCAGC CTGGATACAT
             Consensus    C-GAGTC-CT C-------TC -GTG-GC--- -AACAC-AGC C--G-TCCAC

                          951                                                1000
       Human_TERT_cds     ATCCACATCG CGGCCACCAC GTCCCTGGGA CACGCCTTGT CCCCCGGTGT
       Mouse_TERT_cds     ATCTCTG--- CTGTCACCAC CCCGCCAAAA TGCCTTTCAG CTCAGGCCAT
     Hamster_TERT_cds     ATCCCTG--- CAGTCACCAC TGTGCCAAAA TGCCTTTCAG CTCAGACCAT
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    CTCCGGG--- ---------- -GCCCCAGGG AGTACCCCAT GACCCAGCAC
             Consensus    ATC------G C-GTCACCAC --C-CCA--A -GC---TCA- C-C----CAT

                          1001                                               1050
       Human_TERT_cds     ACGCCGAGAC CAAGCACTTC CTCTACTCCT ---CAGGCGA CAAGGAGCAG
       Mouse_TERT_cds     TTATTGAGAC CAGACATTTC CTTTACTCCA GGGGAGATGG CCAAGAGCGT
     Hamster_TERT_cds     ATACTGAGAC CAAACGCTTC CTCTACTCTA GGGAAGGTGG CCGAGAGAGG
Rat_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)    ACCCCGAGAC CAAACGCTTC CTCTACTGCT CG---GGTGG CAGGGAGCGG
             Consensus    A--C-GAGAC CAAAC-CTTC CTCTACTCC- -G--AGGTGG C---GAGCGG
```

Figure 10(C)

```
1051                                                1100
        Human_TERT_cds  CTGCGGCCCT CCTTCCTACT CAGCTCTCTG AGGCCCAGCC TGACTGGCGC
        Mouse_TERT_cds  CTAAACCCCT CATTCCTACT CAGCAACCTC CAGCCTAACT TGACTGGGGC
      Hamster_TERT_cds  CTGAACCCCT CGTTCCTACT CAACAACCTG CAGCCCAGCT TGACTGGGGC
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CTGCGCCCCT CCTTCCTGCT CAGTGCCCTG CCGCCTACCC TG---GGGGC
              Consensus CTG--CCCCT C-TTCCTACT CAGC--CCTG C-GCC-A-C- TGACTGGGGC

                        1101                                                1150
        Human_TERT_cds  TCGGAGGCTC GTGGAGACCA TCTTTCTGGG TTCCAGGCCC TGGATGCCAG
        Mouse_TERT_cds  CAGGAGACTG GTGGAGATCA TCTTTCTGGG CTCAAGGCCT AGGACATCAG
      Hamster_TERT_cds  CAGGAGACTG GTAGAGATAC TCTTTCTAGG CATGAGACCT AGGACATCGG
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CCGCAAACTC GTGGAGACCA TCTTTCTGGG CTCTGCGCCC CAGAAGCCAG
              Consensus C-GGAGACT- GTGGAGA-CA TCTTTCTGGG CTC-AGGCC- -GGA---CAG

                        1151                                                1200
        Human_TERT_cds  GGACTCCCCG CAGGTTGCCC CGCCTGCCCC AGCGCTACTG GCAAATGCGG
        Mouse_TERT_cds  GACCACTCTG CAGGACACAC CGTCTATCGC GTCGATACTG GCAGATGCGG
      Hamster_TERT_cds  GACCACTCTG TGGGAGACGC CGCCTATCGA AGCGCTACTG GCAGATGCGG
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GGGCCGCCCG CAGGATGCGC CGCCTGCCTG CCCGCTACTG GCGAATGAGG
              Consensus G--C-C-C-G CAGGA--C-C CGCCT--C-- --CGCTACTG GCA-ATGCGG

                        1201                                                1250
        Human_TERT_cds  CCCCTGTTTC TGGAGCTGCT TGGGAACCAC GCGCAGTGCC CCTACGGGGT
        Mouse_TERT_cds  CCCCTGTTCC AACAGCTGCT GGTGAACCAT GCAGAGTGCC AATATGTCAG
      Hamster_TERT_cds  CCCCTATTCC AGCAGTTGCT TGTGAACCAT GCGCGGTGCC CGTATGTCCG
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CCCCTGTTCC AGGAGCTGCT TGGGAACCAC GCCCGGTGCC CCTACCGTGC
              Consensus CCCCTGTTCC AG-AGCTGCT TG-GAACCA- GC-C-GTGCC C-TA-G----

                        1251                                                1300
        Human_TERT_cds  GCTCCTCAAG ACGCACTGCC CGCTGCGAGC TGCGGTCACC CCAG------
        Mouse_TERT_cds  ACTCCTCAGG TCACATTGCA GGTTTCGAAC AGCAAAC--- ----------
      Hamster_TERT_cds  GCTCCTCAGG TCCCATTGCA GGTTTCGGAC CGCAGCC--- ----------
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GCTCCTCAGG ACCCACTGCC CGCTTCGGGC CATGGCCGCT AAGGAGGGGT
              Consensus GCTCCTCAGG -C-CA-TGC- -G-TTCG--C -GC-G-C--- ----------

                        1301                                                1350
        Human_TERT_cds  -----CAGCC GGTGTCTGTG CCCGGGAGAA GCCCCAGG-- --GCTCTGTG
        Mouse_TERT_cds  -----CAACA GGTGACAGAT GCCTTGAACA CCA------- ----------
      Hamster_TERT_cds  -----CACCA GGTGGCAGGT GCCTTGAACA CCACCA---- ----------
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CTGGCAACCA GGCACACAGG GGAGTGGGCA TCTGTCCCCT GGAGAGGCCA
              Consensus -----CA-CA GGTG-C-G-- GCC-TGA-CA -C------C- ----------

                        1351                                                1400
        Human_TERT_cds  GCGGCCCCCG AGGAGGAGGA CACAGACCCC CGTCGCCTGG TGCAGCTGCT
        Mouse_TERT_cds  ---------- ---------- -----GCCCA CCGCACCTCA TGGATTTGCT
      Hamster_TERT_cds  ---------- ---------- -----GCCCA CAGCGCCTCA TGAATTTGCT
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GTAGCAGCCC CCCAGGAGCA GACGGACTCC ACACGCCTGG TACAGCTCCT
              Consensus ---------- ---------- ------CCC- C--CGCCT-- TG-A--TGCT
```

Figure 10(D)

```
                        1401                                                1450
        Human_TERT_cds  CCGCCAGCAC AGCAGCCCCT GGCAGGTGTA CGGCTTCGTG CGGGCCTGCC
        Mouse_TERT_cds  CCGCCTGCAC AGCAGTCCCT GGCAGGTATA TGGTTTTCTT CGGGCCTGTC
      Hamster_TERT_cds  CCGTCTACAC AGCAGTCCCT GGCAGGTATA TGGCTTTCTT CAGGCCTGTG
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CCGACAGCAC AGCAGCCCCT GGCAGGTGTA TGCCTTCCTG AGGGCCTGCC
              Consensus  CCG-C-GCAC AGCAG-CCCT GGCAGGT-TA TGGCTT-CT- CGGGCCTG-C

                        1451                                                1500
        Human_TERT_cds  TGCGCCGGCT GGTGCCCCCA GGCCTCTGGG GCTCCAGGCA CAACGAACGC
        Mouse_TERT_cds  TCTGCAAGGT GGTGTCTGCT AGTCTCTGGG GTACCAGGCA CAATGAGCGC
      Hamster_TERT_cds  TCGGAAAGCT GGTGCCTCCG GGTCTCTGGG GTTCCCGGCA CAACCAGCGA
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  TGTGCTGGCT GGTGCCCACT GGACTCTGGG GCTCCAGGCA CAACCAGCGC
              Consensus  T--GC--GCT GGTGCC--C- GG-CTCTGGG G-TCCAGGCA CAAC-AGCGC

                        1501                                                1550
        Human_TERT_cds  CGCTTCCTCA GGAACACCAA GAAGTTCATC TCCCTGGGGA AGCATGCCAA
        Mouse_TERT_cds  CGCTTCTTTA AGAACTTAAA GAAGTTCATC TCGTTGGGGA AATACGGCAA
      Hamster_TERT_cds  CGCTTCTTTA AGAACGTGAA GCGGTTCATC TCCTTGGGGA AGTATGACAA
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  CGCTTCTTGA GGAACGTGAA GAAGTTCATC TCCCTGGGAA AGCACGCTAA
              Consensus  CGCTTCTT-A -GAAC-T-AA GAAGTTCATC TCC-TGGGGA AG-A-G-CAA

                        1551                                                1600
        Human_TERT_cds  GCTCTCGCTG CAGGAGCTGA CGTGGAAGAT GAGCGTGCGG GACTGCGCTT
        Mouse_TERT_cds  GCTATCACTG CAGGAACTGA TGTGGAAGAT GAAAGTAGAG GATTGCCACT
      Hamster_TERT_cds  GCTGTCGCTG CAGGAGCTGA CGTGGAAGAT GAAAGTTCAA GACTGCAGGT
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GCTCTCCCTG CAGGAACTGA CGTGGAAGAT GAAGGTGCGG GACTGCACCT
              Consensus  GCT-TC-CTG CAGGA-CTGA CGTGGAAGAT GAA-GT-C-G GACTGC---T

                        1601                                                1650
        Human_TERT_cds  GGCTGCGCAG GAGCCC---- ---------- ---AGGGGTT GGCTGTGTTC
        Mouse_TERT_cds  GGCTCCGCAG CAGCCC---- ---------- ---GGGGAAG GACCGTGTCC
      Hamster_TERT_cds  GGCTTCGCAG CAGCCC---- ---------- ---AGGGAAC AACTGTGTCC
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GGCTGCACGG GAACCCAGGT GAGGAGTGCA GAGTGAGCAG GTGCCTGGTT
              Consensus  GGCT-CGCAG -AGCCCAGGG -A-GACTG-- ---------- -----TGT-C

                        1651                                                1700
        Human_TERT_cds  CGGCCGCAGA G--------- --CACCGTCT GCGTGA--GG AGATCCTGGC
        Mouse_TERT_cds  CCGCTGCAGA G--------- --CACCGTCT GAGGGA--GA GGATCCTGGC
      Hamster_TERT_cds  CGGCTGCAGA G--------- --CACCGCAC GAGGGA--AA GGATCCTGGC
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  GGCCTACAGG AAGGACCAGG CTCACAGCCC GAGTGTGGTA GGCCCCTCCC
              Consensus  CGGCTGCAGA G--------- --CACCG-C- GAG-GAG--A GGATCCTGGC

                        1701                                                1750
        Human_TERT_cds  CAAGTTCCTG CACTGGCTGA TGAGTGTGTA CGTCGTCG-- ---AGCTGCT
        Mouse_TERT_cds  TACGTTCCTG TTCTGGCTGA TGGACACATA CGTGGTAC-- ---AGCTGCT
      Hamster_TERT_cds  TGTGTTCTTG TTCTGGCTGA TGGACGCGTA CGTGGTAG-- ---AGCTGCT
Rat_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
Dog_TERT_cds_(partial)  TCCCAACCAT CCATCTC-GG AACACCCCTT CCTCTGTTGG GCCGGCAGCG
              Consensus  T--GTTCCTG --CTGGCTGA TG-AC-C-TA CGT-----GG T--AGCTGCT
```

Figure 10(E)

```
                        1751                                                1800
        Human_TERT_cds  CAGGTCTTTC TTTTA----- ---------- ---TGTCACG GAGAC---CA
        Mouse_TERT_cds  TAGGTCATTC TTTTA----- ---------- ---CATCACA GAGAG---CA
      Hamster_TERT_cds  TCGGTCATTC TTTTA----- ---------- ---CGTCACA GAGAC---CA
Rat_TERT_cds_(partial)  -AGGTCATTC TTTTA----- ---------- ---CATCACA GAGAG---CA
Dog_TERT_cds_(partial)  ACTGCCCTGC CTGCCTCTCA GCCCCCCGAC TCCCGTCACA AACTAGTCCC
              Consensus -AGGTCATTC TT-------- ---------- TTACGTCACA GA---GACCA

                        1801                                                1850
        Human_TERT_cds  CGTTTCA-AA AGAA--CAGG CTCTT----- TTTCTACCGG AAGAGTGTCT
        Mouse_TERT_cds  CATTCCA-GA AGAA--CAGG CTCTT----- CTTCTACCGT AAGAGTGTGT
      Hamster_TERT_cds  CTTTCCA-GA AGAA--CCGG CTCTT----- CTTCTACCGA AAGAGCATGT
Rat_TERT_cds_(partial)  CATTCCA-GA AGAA--CAGG CTCTT----- CTTCTACCGT AAGAGTGTGT
Dog_TERT_cds_(partial)  CATCCCCAGA GGCTGCCGGG CTGTCCACAT CTGCTGCCAG GAGTCATGAG
              Consensus CATTCC-AGA AGAA--CAGG CTCT-----T CTTCTACC-- ----------

                        1851                                                1900
        Human_TERT_cds  GGAGCAAGT- ---------- ---------- ---------- -------TGC
        Mouse_TERT_cds  GGAGCAAGC- ---------- ---------- ---------- -------TGC
      Hamster_TERT_cds  GGAGAAGGC- ---------- ---------- ---------- -------TGC
Rat_TERT_cds_(partial)  GGAGCAAGC- ---------- ---------- ---------- -------TGC
Dog_TERT_cds_(partial)  ACATCACGAA ATGAGCTCTT GGTGGCGGCC CTCATCCCCT TACCCCGGGC
              Consensus -------G-A A-GAGTGTGT GGAGCAAGCT ---------- --------GC

                        1901                                                1950
        Human_TERT_cds  AAAGCATTGG AATCA----- -------GAC AGCACTTGAA GAGGGTGCAG
        Mouse_TERT_cds  AGAGCATTGG AGTCA----- -------GGC AACACCTTGA GAGAGTGCGG
      Hamster_TERT_cds  AGAGCATTGG AGTCA----- -------GGC ATCACCTTGA GAGAGTGCGG
Rat_TERT_cds_(partial)  AGAGCATTGG AGTCA----- -------GGC AACACCTTGA GAGAGTGCGG
Dog_TERT_cds_(partial)  ACACATGGCT CCTCATAGGC TGTGCGCCAC AACTCTTCAA TAGTGTGCAC
              Consensus AGAG------ ---CATTGGA -GTCAG--GC AACACCTTGA GAGAGTGCGG

                        1951                                                2000
        Human_TERT_cds  CTGCGGGAGC TGTCGGAAGC AGAGGTCAGG CAGCATCGGG AAGCCAGGCC
        Mouse_TERT_cds  CTACGGGAGC TGTCACAAGA GGAGGTCAGG CATCACCAGG ACACCTGGCT
      Hamster_TERT_cds  CTACAAGAAC TGTCTCAAGA AGAAGTCAGG CAGCGCCAGG AGGCCTGGCC
Rat_TERT_cds_(partial)  CTACGGGAGC TGTCACAAGA GGAGGTCAGG CATCACCAGG ACACCTGGCT
Dog_TERT_cds_(partial)  CTCCGAGAAC TGTCAGAAGC AGAGGTCAGG AGACACCGGG AAGCCAGACC
              Consensus CTACGGGAGC TGTCACAAGA AGAGGTCAGG CA-CACCAGG A-GCCTGGCC

                        2001                                                2050
        Human_TERT_cds  CGCCCTGCTG ACGTCCAGAC TCCGCTTCAT CCCCAAGCCT GACGGGCTGC
        Mouse_TERT_cds  AGCCATGCCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC AACGGCCTGC
      Hamster_TERT_cds  AGCCATGCCC ATCTGCAGAC TGCGTTTCAT CCCCAAGCCC AGTGGTCTTC
Rat_TERT_cds_(partial)  AGCCATGCCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC AACGGCCTGC
Dog_TERT_cds_(partial)  TGCTCTGCTG ACCTCCAGAC TCCGCTTCCT CCCCAAGCCT AGTGGGCTGC
              Consensus AGCCATGCCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC AACGG-CTGC

                        2051                                                2100
        Human_TERT_cds  GGCCGATTGT GAACATGGAC TACGTCGTGG GAGCCAGAAC GTTCCGCAGA
        Mouse_TERT_cds  GGCCCATTGT GAACATGAGT TATAGCATGG GTACCAGAGC TTTGGGCAGA
      Hamster_TERT_cds  GGCCCATTGT GAACATGAGT TAT---ATGG GCACCAGAGC CTTTGACAAA
Rat_TERT_cds_(partial)  GGCCCATTGT GAACATGAGT TATAGCATGG GTACCAGAGC TTTGGGCAGA
Dog_TERT_cds_(partial)  GGCCGATTGT GAATATGGAC TACATCATGG GAGCCAGAAC ATTCCACAGA
              Consensus GGCCCATTGT GAACATGAGT TATA-CATGG G-ACCAGAGC -TT-GGCAGA
```

Figure 10(F)

```
                2101                                                 2150
      Human_TERT_cds  GAAAAGAGGG CCGAGCGTCT CACCTCGAGG GTGAAGGCAC TGTTCAGCGT
      Mouse_TERT_cds  AGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TCTTCAGCAT
    Hamster_TERT_cds  GGGAAGCAGG CTCAGCATTT CACCCAGTGT CTCAAGACTC TGTTCAGCGT
Rat_TERT_cds_(partial)  AGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TCTTCAGCAT
Dog_TERT_cds_(partial)  GACAAGAAGG TCCAGCATCT CACCTCACAA CTGAAGACAC TGTTCAGTGT
            Consensus  GGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TGTTCAGCGT

                2151                                                 2200
      Human_TERT_cds  GCTCAACTAC GAGCGGGCGC GGCGCCCCGG CCTCCTGGGC GCCTCTGTGC
      Mouse_TERT_cds  GCTCAACTAT GAGCGGACAA AACATCCTCA CCTTATGGGG TCTTCTGTAC
    Hamster_TERT_cds  GCTCAACTAT GAACTGACAA AACATACTAA CCTTCTGGGG GCATCTGTAC
Rat_TERT_cds_(partial)  GCTCAACTAT GAGCGGACAA AACATCCTCA CCTTATGGGG TCTTCTGTAC
Dog_TERT_cds_(partial)  CCTGAACTAT GAGCGGGCCC GGCGCCCCAG CCTCCTAGGG GCCTCCATGC
            Consensus  GCTCAACTAT GAGCGGACAA AACATCCT-A CCTTCTGGGG GC-TCTGTAC

                2201                                                 2250
      Human_TERT_cds  TGGGCCTGGA CGATATCCAC AGGGCCTGGC GCACCTTCGT GCTGCGTGTG
      Mouse_TERT_cds  TGGGTATGAA TGACATCTAC AGGACCTGGC GGGCCTTTGT GCTGCGTGTG
    Hamster_TERT_cds  TGGGCCTGAA TGATATCTAC AGGACCTGGC GGACCTTCGT ACTGCGTGTG
Rat_TERT_cds_(partial)  TGGGTATGAA TGACATCTAC AGGACCTGGC GGGCCTTTGT GCTGCGTGTG
Dog_TERT_cds_(partial)  TGGGCATGGA CGACATCCAC AGGGCCTGGC GCACCTTTGT GCTACGCATA
            Consensus  TGGGCATGAA TGACATCTAC AGGACCTGGC GGACCTTTGT GCTGCGTGTG

                2251                                                 2300
      Human_TERT_cds  CGGGCCCAGG ACCCGCCGCC TGAGCTGTAC TTTGTCAAGG TGGATGTGAC
      Mouse_TERT_cds  CGTGCTCTGG ACCAGACACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC
    Hamster_TERT_cds  CGCACTCTGG ACCCAGCACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC
Rat_TERT_cds_(partial)  CGTGCTCTGG ACCAGACACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC
Dog_TERT_cds_(partial)  CGGGCCCAGA ATCCGGCACC CCAGCTGTAC TTTGTCAAGG TGGACGTGAC
            Consensus  CG-GCTCTGG ACCCG-CACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC

                2301                                                 2350
      Human_TERT_cds  GGGCGCGTAC GACACCATCC CCCAGGACAG GCTCACGGAG GTCATCGCCA
      Mouse_TERT_cds  CGGGGCCTAT GATGCCATCC CCCAGGGTAA GCTGGTGGAG GTTGTTGCCA
    Hamster_TERT_cds  AGGGGCATAT GATGCCATCC CCCAGGACAA GCTTGTGGAG GTTATTGCCA
Rat_TERT_cds_(partial)  CGGGGCCTAT GATGCCATCC CCCAGGGTAA GCTGGTGGAG GTTGTTGCCA
Dog_TERT_cds_(partial)  GGGGGCATAT GACGCCCTCC CTCAGGACAG GCTGGTAGAG GTGATTGCCA
            Consensus  -GGGGC-TAT GATGCCATCC CCCAGGACAA GCTGGTGGAG GTTATTGCCA

                2351                                                 2400
      Human_TERT_cds  GCATCATCAA ACCCC---AG AACACGTACT GCGTGCGTCG GTATGCCGTG
      Mouse_TERT_cds  ATATGATCAG GCACTCGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG
    Hamster_TERT_cds  ATATGATCAG ACACCCAGAC AACTCGTACT GTATCCACCA ATATGCAGTG
Rat_TERT_cds_(partial)  ATATGATCAG GCACTCGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG
Dog_TERT_cds_(partial)  ATGTGATCAG GCCTCAGGAA AGCACATACT GCGTGCGCCA CTATGCCGTG
            Consensus  ATATGATCAG GCAC-CGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG

                2401                                                 2450
      Human_TERT_cds  GTCCAGAAGG CCGCCCATGG GCACGTCCGC AAGGCCTTCA AGAGCCACGT
      Mouse_TERT_cds  GTCCGGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTTA GGAGACAGGT
    Hamster_TERT_cds  GTCCAAAGAG ATAGACAAGG CCAAATCCAC AAGTCCTTCA GGAGACAGGT
Rat_TERT_cds_(partial)  GTCCGGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTTA GGAGACAGGT
Dog_TERT_cds_(partial)  GTCCAGAGGA CTGCCCGGGG ACACGTCCGC AAGGCCTTCA AAAGACAC--
            Consensus  GTCCAGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTCA GGAGACAGGT
```

Figure 10(G)

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                          2451                                                2500
       Human_TERT_cds  CTCTACCTTG ACAGACCTCC AGCCGTACAT GCGACAGTTC GTGGCTCACC
       Mouse_TERT_cds  CACCACCCTC TCTGACCTCC AGCCATACAT GGGCCAGTTC CTTAAGCATC
     Hamster_TERT_cds  CTCCACCCTC TCTGACCTCC AGCCACACAT GGGCCAGTTC TTGAAGCATC
Rat_TERT_cds_(partial) CACCACCCTC TCTGACCTCC AGCCATACAT GGGCCAGTTC CTTAAGCATC
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  C-CCACCCTC TCTGACCTCC AGCCATACAT GGGCCAGTTC -T-AAGCATC

                          2501                                                2550
       Human_TERT_cds  TGCAGGAG-- ----ACCAGC CCGCTGAGGG ATGCCGTCGT CATCGAGCAG
       Mouse_TERT_cds  TGCAGGATTC AGATGCCAGT GCACTGAGGA ACTCCGTTGT CATCGAGCAG
     Hamster_TERT_cds  TTCAGGACTC AGACACCAGT GCGCTGAGGA ACTCCGTTGT CATTGAGCAG
Rat_TERT_cds_(partial) TGCAGGATTC AGATGCCAGT GCACTGAGGA ACTCCGTTGT CATCGAGCAG
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  TGCAGGA-TC AGA--CCAGT GC-CTGAGGA ACTCCGTTGT CATCGAGCAG

                          2551                                                2600
       Human_TERT_cds  AGCTCCTCCC TGAATGAGGC CAGCAGTGGC CTCTTCGACG TCTTCCTACG
       Mouse_TERT_cds  AGCATCTCTA TGAATGAGAG CAGCAGCAGC CTGTTTGACT TCTTCCTGCA
     Hamster_TERT_cds  AGCTTATCTC TGAACGAGGC CAGCAGCAGC CTGTTCGACT TCTTCCTGCG
Rat_TERT_cds_(partial) AGCATCTCTA TGAATGAGAG CAGCAGCAGC CTGTTTGACT TCTTCCTGCA
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  AGC-TCTCT- TGAATGAG-- CAGCAGCAGC CTGTT-GACT TCTTCCTGC-

                          2601                                                2650
       Human_TERT_cds  CTTCATGTGC CACCACGCCG TGCGCATCAG GGGCAAGTCC TACGTCCAGT
       Mouse_TERT_cds  CTTCCTGCGT CACAGTGTCG TAAAGATTGG TGACAGGTGC TATACGCAGT
     Hamster_TERT_cds  CTTTGTGCGT AACAGTGTCG TGAAGATCGG TGGCAGGTGC TATGTCCAGT
Rat_TERT_cds_(partial) CTTCCTGCGT CACAGTGTCG TAAAGATTGG TGACAGGTGC TATACGCAGT
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  CTTC-TGCGT CACAGTGTCG T-AAGAT-GG TG-CAGGTGC TAT---CAGT

                          2651                                                2700
       Human_TERT_cds  GCCAGGGGAT CCCGCAGGGC TCCATCCTCT CCACGCTGCT CTGCAGCCTG
       Mouse_TERT_cds  GCCAGGGCAT CCCCCAGGGC TCCAGCCTAT CCACCCTGCT CTGCAGTCTG
     Hamster_TERT_cds  GCCAGGGCAT CCCCCAGGGC TCCAGCCTGT CCACCCTGCT CTGCAGTCTG
Rat_TERT_cds_(partial) GCCAGGGCAT CCCCCAGGGC TCCAGCCTAT CCACCCTGCT CTGCAGTCTG
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  GCCAGGGCAT CCCCCAGGGC TCCAGCCT-T CCACCCTGCT CTGCAGTCTG

                          2701                                                2750
       Human_TERT_cds  TGCTACGGCG ACATGGAGAA CAAGCTGTTT GCGGGGATTC GGCGGGACGG
       Mouse_TERT_cds  TGTTTCGGAG ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG
     Hamster_TERT_cds  TGTTTCGGGG ACATGGAGAA CAAGCTGTTT GCTGAAGTGC AGCAGGATGG
Rat_TERT_cds_(partial) TGTTTCGGAG ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  TGTTTCGG-G ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG

                          2751                                                2800
       Human_TERT_cds  GCTGCTCCTG CGTTTGGTGG ATGATTTCTT GTTGGTGACA CCTCACCTCA
       Mouse_TERT_cds  GTTGCTTTTA CGTTTTGTTG ATGACTTTCT GTTGGTGACG CCTCACTTGG
     Hamster_TERT_cds  GCTGCTTTTG CGTTTTGTTG ATGACTTTCT GTTGGTGACA CCTCACCTGG
Rat_TERT_cds_(partial) GTTGCTTTTA CGTTTTGTTG ATGACTTTCT GTTGGTGACG CCTCACTTGG
Dog_TERT_cds_(partial) ---------- ---------- ---------- ---------- ----------
             Consensus  G-TGCTTTT- CGTTTTGTTG ATGACTTTCT GTTGGTGAC- CCTCAC-TGG
```

Figure 10(H)

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                          2801                                                2850
       Human_TERT_cds     CCCACGCGAA AACCTTCCTC AGGACCCTGG TCCGAGGTGT CCCTGAGTAT
       Mouse_TERT_cds     ACCAAGCAAA AACCTTCCTC AGCACCCTGG TCCATGGCGT TCCTGAGTAT
     Hamster_TERT_cds     TCCAGGCGGA AGCCTTCCTC AGGGCCCTCG TCCGTGGCAT CCCTGAGTAC
Rat_TERT_cds_(partial)    ACCAAGCAAA AACCTTCCTC AGCACCCTGG TCCATGGCGT TCCTGAGTAT
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    -CCA-GC-AA AACCTTCCTC AG-ACCCTGG TCC-TGGCGT -CCTGAGTAT

                          2851                                                2900
       Human_TERT_cds     GGCTGCGTGG TGAACTTGCG GAAGACAGTG GTGAACTTCC CTGTAGAAGA
       Mouse_TERT_cds     GGGTGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGAGCC
     Hamster_TERT_cds     GGCTGCATGA TAAACTTGCA GAAGACAGTG GTAAACTTCC CTGTGGACGC
Rat_TERT_cds_(partial)    GGGTGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGAGCC
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    GG-TGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGA--C

                          2901                                                2950
       Human_TERT_cds     CGAGGCCCTG GGTGGCACGG CTTTTGTTCA GATGCCGGCC CACGGCCTAT
       Mouse_TERT_cds     TGGTACCCTG GGTGGTGCAG CTCCATACCA GCTGCCTGCT CACTGCCTGT
     Hamster_TERT_cds     TGGTACCCTG GATGGCACAG CTCCACACCA GCTGCCTGCT CACTGCCTGT
Rat_TERT_cds_(partial)    TGGTACCCTG GGTGGTGCAG CTCCATACCA GCTGCCTGCT CACTGCCTGT
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    TGGTACCCTG GGTGG--CAG CTCCA-ACCA GCTGCCTGCT CACTGCCTGT

                          2951                                                3000
       Human_TERT_cds     TCCCCTGGTG CGGCCTGCTG CTGGATACCC GGACCCTGGA GGTGCAGAGC
       Mouse_TERT_cds     TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACTTTGGA GGTGTTCTGT
     Hamster_TERT_cds     TTCCCTGGTG TGGCTTACTG CTGGACACTC AGACTCTGGA GGTGCTCTGT
Rat_TERT_cds_(partial)    TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACTTTGGA GGTGTTCTGT
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACT-TGGA GGTG-TCTGT

                          3001                                                3050
       Human_TERT_cds     GACTACTCCA GCTATGCCCG GACCTCCATC AGAGCCAGTC TCACCTTCAA
       Mouse_TERT_cds     GACTACTCAG GTTATGCCCA GACCTCAATT AAGACGAGCC TCACCTTCCA
     Hamster_TERT_cds     GACTACACTG GTTATGCCCG GACCTCAATT AAGGCCAGCC TCACCTTCCA
Rat_TERT_cds_(partial)    GACTACTCAG GTTATGCCCA GACCTCAATT AAGACGAGCC TCACCTTCCA
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    GACTACTC-G GTTATGCCC- GACCTCAATT AAG-C-AGCC TCACCTTCCA

                          3051                                                3100
       Human_TERT_cds     CCGCGGCTTC AAGGCTGGGA GGAACATGCG TCGCAAACTC TTTGGGGTCT
       Mouse_TERT_cds     GAGTGTCTTC AAAGCTGGGA AGACCATGCG GAACAAGCTC CTGTCGGTCT
     Hamster_TERT_cds     GCGCACCTTC AAGGCGGGGA GGAACATGCG ACAGAAGCTC TTAGCTGTTT
Rat_TERT_cds_(partial)    GAGTGTCTTC AAAGCTGGGA AGACCATGCG GAACAAGCTC CTGTCGGTCT
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    G-G-G-CTTC AA-GCTGGGA -GA-CATGCG --ACAAGCTC -T--CGGTCT

                          3101                                                3150
       Human_TERT_cds     TGCGGCTGAA GTGTCACAGC CTGTTTCTGG ATTTGCAGGT GAACAGCCTC
       Mouse_TERT_cds     TGCGGTTGAA GTGTCACGGT CTATTTCTAG ACTTGCAGGT GAACAGCCTC
     Hamster_TERT_cds     TGCGGTTGAA GTGTCACAGT CTGTTTCTAG ACTTGCAGAT GAATAGCCTT
Rat_TERT_cds_(partial)    TGCGGTTGAA GTGTCACGGT CTATTTCTAG ACTTGCAGGT GAACAGCCTC
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
             Consensus    TGCGGTTGAA GTGTCAC-GT CT-TTTCTAG ACTTGCAGGT GAACAGCCTC
```

Figur 10(I)

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      3151                                                 3200
        Human_TERT_cds  CAGACGGTGT GCACCAACAT CTACAAGATC CTCCTGCTGC AGGCGTACAG
        Mouse_TERT_cds  CAGACAGTCT GCATCAATAT ATACAAGATC TTCCTGCTTC AGGCCTACAG
      Hamster_TERT_cds  CAGACAGTCT GTATCAATGT GTACAAGATC TTCCTGCTTC AGGCCTACAG
Rat_TERT_cds_(partial)  CAGACAGTCT GCATCAATAT ATACAAGATC TTCCTGCTTC AGGCCTACAG
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  CAGACAGTCT GCATCAATAT -TACAAGATC TTCCTGCTTC AGGCCTACAG

                      3201                                                 3250
        Human_TERT_cds  GTTTCACGCA TGTGTGCTGC AGCTCCCATT TCATCAGCAA GTTTGGAAGA
        Mouse_TERT_cds  GTTCCATGCA TGTGTGATTC AGCTTCCCTT TGACCAGCGT GTTAGGAAGA
      Hamster_TERT_cds  GTTCCATGCG TGTGCGCTTC AGCTTCCCTT TGACCAACAT GTTAGAAAGA
Rat_TERT_cds_(partial)  GTTCCATGCA TGTGTGATTC AGCTTCCCTT TGACCAGCGT GTTAGGAAGA
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  GTTCCATGCA TGTGTG-TTC AGCTTCCCTT TGACCAGC-T GTTAGGAAGA

                      3251                                                 3300
        Human_TERT_cds  ACCCCACATT TTTCCTGCGC GTCATCTCTG ACACGGCCTC CCTCTGCTAC
        Mouse_TERT_cds  ACCTCACATT CTTTCTGGGC ATCATCTCCA GCCAAGCATC CTGCTGCTAT
      Hamster_TERT_cds  ACCCCGCATT CTTTCTGAGC ATCATCTCCA ACATAGCATC CTGCTGCTAC
Rat_TERT_cds_(partial)  ACCTCACATT CTTTCTGGGC ATCATCTCCA GCCAAGCATC CTGCTGCTAT
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  ACC-CACATT CTTTCTG-GC ATCATCTCCA -C--AGCATC CTGCTGCTA-

                      3301                                                 3350
        Human_TERT_cds  TCCATCCTGA AAGCCAAGAA CGCAGGGATG TCGCTGGGGG CCAAGGGCGC
        Mouse_TERT_cds  GCTATCCTGA AGGTCAAGAA TCCAGGAATG ACACTAAAGG CC--------
      Hamster_TERT_cds  TCCATCCTGA AGGTCAAGAA TGCAGGAATG ACACTAAAGG CCAAGGGTGC
Rat_TERT_cds_(partial)  GCTATCCTGA AGGTCAAGAA TCCAGGAATG ACACTAAAGG CC--------
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  -C-ATCCTGA AGGTCAAGAA T-CAGGAATG ACACTAAAGG CC--------

                      3351                                                 3400
        Human_TERT_cds  CGCCGGCCCT CTGCCCTCCG AGGCCGTGCA GTGGCTGTGC CACCAAGCAT
        Mouse_TERT_cds  -TCTGGCTCC TTTCCTCCTG AAGCCGCACA TTGGCTCTGC TACCAGGCCT
      Hamster_TERT_cds  CTCTGGCTCA TTTCCTCCTG AAGCTGCACG TTGGCTCTGC TACCAAGCCT
Rat_TERT_cds_(partial)  -TCTGGCTCC TTTCCTCCTG AAGCCGCACA TTGGCTCTGC TACCAGGCCT
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  -TCTGGCTC- TTTCCTCCTG AAGCCGCACA TTGGCTCTGC TACCA-GCCT

                      3401                                                 3450
        Human_TERT_cds  TCCTGCTCAA GCTGACTCGA CACCGTGTCA CCTACGTGCC ACTCCTGGGG
        Mouse_TERT_cds  TCCTGCTCAA GCTGGCTGCT CATTCTGTCA TCTACAAATG TCTCCTGGGA
      Hamster_TERT_cds  TCCTGCTCAA GCTGGCTGGT CATTCTGTCA CCTACAAGTG TCTCCTGGGA
Rat_TERT_cds_(partial)  TCCTGCTCAA GCTGGCTGCT CATTCTGTCA TCTACAAATG TCTCCTGGGA
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  TCCTGCTCAA GCTGGCTG-T CATTCTGTCA -CTACAA-TG TCTCCTGGGA

                      3451                                                 3500
        Human_TERT_cds  TCACTCAGGA CAGCCCAGAC GCAGCTGAGT CGGAAGCTCC CGGGGACGAC
        Mouse_TERT_cds  CCTCTGAGGA CAGCCCAAAA ACTGCTGTGC CGGAAGCTCC CAGAGGCGAC
      Hamster_TERT_cds  CCTCTCAGGA CAGCACAAAA ACAGCTGTGC CGGAAGCTCC CAAGGGCAAC
Rat_TERT_cds_(partial)  CCTCTGAGGA CAGCCCAAAA ACTGCTGTGC CGGAAGCTCC CAGAGGCGAC
Dog_TERT_cds_(partial)  ---------- ---------- ---------- ---------- ----------
              Consensus  CCTCT-AGGA CAGCCCAAAA AC-GCTGTGC CGGAAGCTCC CAG-GGCGAC
```

Figur 10(J)

```
                        3501                                                3550
          Human_TERT_cds  GCTGACTGCC CTGGAGGCCG CAGCCAACCC GGCACTGCCC TCAGACTTCA
          Mouse_TERT_cds  AATGACCATC CTTAAAGCTG CAGCTGACCC AGCCCTAAGC ACAGACTTTC
        Hamster_TERT_cds  AATGGCCATC CTTGAGACTG CCGCTGACCC AGCCCTAAGC ACAGACTTTC
Rat_TERT_cds_(partial)    AATGACCATC CTTAAAGCTG CAGCTGACCC AGCCCTAAGC ACAGACTTTC
Dog_TERT_cds_(partial)    ---------- ---------- ---------- ---------- ----------
                Consensus AATGACCATC CTT-A-GCTG CAGCTGACCC AGCCCTAAGC ACAGACTTTC

                        3551            3567
          Human_TERT_cds  AGACCATCCT GGACTGA
          Mouse_TERT_cds  AGACCATTTT GGACTAA
        Hamster_TERT_cds  AGACCATTTT GGACTAA
Rat_TERT_cds_(partial)    AGACCATTTT GGACTAA
Dog_TERT_cds_(partial)    ---------- -------
                Consensus AGACCATTTT GGACTAA
```